

Organic Analysis Base/Neutral/Acid Extractables Request Sheet

Organic parameters are grouped by methodologies and program lists. The compounds regulated under the Safe Drinking Water Act are listed on a separate request sheet due to the extensive lists and numerous methodologies involved. Use the Other space on the Organics Analysis Request Sheet for parameters not listed.

Routine Semivolatiles, Pesticides, and PCBs

The following groups are compounds typically requested by the water programs and Solid/Hazardous Management. These compounds are found in the National Pollution Discharge Elimination System (NPDES) list and are the extractables that have always been on the request sheets.

- **NPDES Extractables**
- **Pesticides/PCBs**

To collect for these extractables:

Water: One 1-gallon amber bottle, EPA certified clean, and teflon-lined cap.
Holding time – 7 days to extract; 40 days to analyze

Sediment: One 16-ounce amber jar, EPA certified clean, and teflon-lined lid.
Holding time – 14 days

TCL (Target Compound List), Semivolatiles, and Pesticides/PCBs

The following groups of compounds are typically requested by the Superfund programs.

- **TCL Semivolatiles**
- **Pesticides/PCBs**

To collect for these extractables:

Water: One 1-gallon amber bottle, EPA certified clean, and teflon-lined cap.
Holding time – 7 days to extract; 40 days to analyze

Sediment: One 16-ounce amber jar, EPA certified clean, and teflon-lined lid.

Nitrobenzenes

These 6 compounds are requested at various Superfund sites where explosives are suspected.

To collect for these samples:

Water: Two 1-liter amber bottles, EPA certified clean, and teflon-lined cap.

Toxicity Characteristic Leaching Procedure (TCLP) Extractables

These are the 22 compounds regulated by the toxicity characteristic rule. To request all the organics regulated by the rule you will also need to ask for the TCLP volatiles listed on the Volatiles and Petroleum Hydrocarbon Request Sheet. To collect the TCLP extractables:

Routine soil or sediment sample: One 16-ounce amber jar with teflon-lined lid.

Lightweight sample, such as ash, or sample with a high moisture content: At least two 16-ounce jars are needed. If you have questions about the sample matrix or amounts, call the laboratory to consult about the number to collect or collect extra jars to be sure there is enough sample to perform the test.



PROJECT/SITE NO.		PROJECT NAME		TCLP Semivolatiles		Laboratory Number
STATION NUMBER		COUNTY		chloroform		
DESCRIPTION				o-cresol		Branch Lab Number
STREAM MILE		DEPTH		m-cresol		
COLLECTED: DATE		MATRIX		p-cresol		Chain of Custody and Supplemental Information
SAMPLER'S NAME (printed)		TIME		cresol		
SAMPLING AGENCY		BILLING CODE		2,4-D		Only one chain of custody form is required per sample set or point (if all collected at the same time)
IF PRIORITY DATE NEEDED				2,4-dinitrotoluene		
SEND REPORT TO:				endrin		1. Collected by
CONTACT HAZARD				heptachlor		
				heptachlor epoxide		Date
				hexachlorobenzene		Delivered to
				hexachlorobutadiene		Date
				hexachloroethane		Time
				indane		2. Received by
				methoxychlor		Date
				nitrobenzene		Delivered to
				pentachlorophenol		Date
				pyridine		Time
				toxaphene		3. Received by
				2,4,5-trichlorophenol		Date
				2,4,6-trichlorophenol		Time
				2,4,5-TP (Silvex)		4. Received in Lab by
				Pesticides/PCBs		Date
				alkalin		Time
				alpha-BHC		Additional Information
				beta-BHC		
				delta-BHC		1. Approximate volume of sample
				gamma-BHC (lindane)		2. Nearest town or city
				technical chlordane		
				alpha-chlordane		3. Others present at collection
				gamma-chlordane		
				4,4-DDD		4. Number of other samples collected at same time at this point
				4,4-DDE		
				4,4-DDT		5. Field collection procedure, handling and/or preservation of this sample
				dieldrin		
				endosulfan I		6. Mode of transportation to lab
				endosulfan II		
				endosulfan sulfate		7. Sample sealed by
				endrin		
				endrin aldehyde		8. Date sample sealed
				endrin ketone		
				heptachlor		9. Remarks
				heptachlor epoxide		
				toxaphene		
				mothoxychlor		
				PCB 1018/1242		
				PCB 1221		
				PCB 1232		
				PCB 1248		
				PCB 1254		
				PCB 1260		
				PCB 1262		

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Organic Analysis Volatiles and Petroleum Hydrocarbons Request Sheet

Organic parameters are grouped by methodologies and program lists. The compounds regulated under the Safe Drinking Water Act are listed on a separate request sheet due to the extensive lists and numerous methodologies involved. Use the Other space for parameters not listed.

National Pollution Discharge Elimination System (NPDES) Volatiles

These compounds are routine volatile parameters and are typically requested by the water programs and Solid/Hazardous Waste Management. These compounds are the volatiles that have always been on the sample request sheet. To collect for these volatiles:

Water: Four 40-ml amber vials, teflon-lined septa caps, **no headspace**.

Holding time – 14 days.

Sediment: One 4-ounce amber jar, teflon-lined septa cap.

Holding time – 14 days.

TCL (Target Compound List) Volatiles - 8260A

These are the Target Compound List (TCL) volatile parameters. These are the compounds typically requested by the Superfund programs. To collect for these volatiles:

Water: Four 40-ml amber vials, teflon-lined septa caps, **no headspace**.

Holding time – 14 days.

Low-level sediment: One 4-ounce amber jar, teflon-lined septa cap + 3 EnCore sampling devices. **EnCore devices must be received in the Central Laboratory within 24 hours of collection in order to be preserved.** Once preserved, the holding time is 14 days.

High-level sediment or waste: One 4-ounce amber jar, teflon-lined septa cap.

Toxicity Characteristic Leaching Procedure (TCLP) Volatiles

These are the 10 compounds regulated by the toxicity characteristic rule. To request all the organics regulated by the rule, you will also need to ask for the TCLP extractables listed on the Base/Neutral/Acid Extractables Request Sheet. To collect the TCLP volatiles:

Routine soil or sediment sample: One 4-ounce amber jar, teflon-lined septa cap.

Lightweight sample, such as ash, or sample with a high moisture content: At least two 16-ounce jars are needed. If you have questions about the sample matrix or amounts, call the laboratory or collect extra jars so we can perform the test.

Petroleum Analyses

The following groups of compounds are typically requested by the Underground Storage Tank Division.

- **BTEX - 8260A - UST** are individual compounds found in many petroleum products.
- **TPH by GC** are gas chromatography methods for total petroleum hydrocarbons. These analyses are gasoline range organics (**GRO**) and extractable petroleum hydrocarbons (EPH).

Samples for these procedures are collected as follows:

Water: BTEX and GRO - Five 40-ml amber vials, teflon-lined septa cap, **no headspace**.

EPH - Two 1-liter amber bottles, acid-preserved.

Note: EPH may be collected in a 1-gallon amber bottle, acid preserved.

Sediment: BTEX and GRO - One 4-ounce amber jar, teflon-lined septa cap.

EPH - One 16-ounce amber jar, teflon-lined cap.

State of Tennessee - Environmental Laboratories

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Organic Analysis

Volatiles and Petroleum Hydrocarbons

PROJECT/SITE NO.		PROJECT NAME	
STATION NUMBER		COUNTY	
DESCRIPTION			
STREAM MILE	DEPTH	MATRIX	
COLLECTED DATE	TIME		
SAMPLER'S NAME (printed)		BILLING CODE	
SAMPLING AGENCY			
IF PRIORITY, DATE NEEDED			
SEND REPORT TO:			
CONTACT HAZARD			
NPDES Volatiles - 624	TCL Volatiles - 6260A	TCLP Volatiles	
Bromoform	Chloromethane	Benzene	
Bromodichloromethane	Bromomethane	Carbon tetrachloride	
Carbon Tetrachloride	Vinyl chloride	Chlorobenzene	
Chlorobenzene	Chloroethane	Chloroform	
Chloroethane	Methylene chloride	1,2-Dichloroethane	
2-Chloroethylvinyl ether	Acetone	1,1-Dichloroethane	
Chloroform	Carbon disulfide	Methyl ethyl ketone	
Chloromethane	1,1-Dichloroethene	Tetrachloroethene	
Dibromochloromethane	1,1-Dichloroethane	Trichloroethene	
1,2-Dichlorobenzene	Cis-1,2-dichloroethene	Vinyl chloride	
1,3-Dichlorobenzene	Trans-1,2-dichloroethene	BTX - 6260A - USI	
1,4-Dichlorobenzene	1,2-Dichloroethane	Benzene	
Dichlorodifluoromethane	Chloroform	Toluene	
1,1-Dichloroethane	2-Butanone	Ethyl benzene	
1,2-Dichloroethane	1,1,1-Trichloroethane	o-Xylene	
1,1-Dichloroethene	Carbon tetrachloride	m-Xylene	
Cis-1,2-dichloroethene	Vinyl acetate	p-Xylene	
Trans-1,2-dichloroethene	Bromodichloromethane	Methyl t-butyl ether	
1,2-Dichloropropane	1,2-Dichloropropane	Diisopropyl ether	
Cis-1,3-dichloropropene	Cis-1,3-dichloropropene	TPH by GC	
Trans-1,2-dichloroethene	Trichloroethene	Gasoline Range Organics	
Methylene chloride	Dibromochloromethane	Diesel Range Organics	
1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Oil Range Organics	
Tetrachloroethene	Benzene	Other	
1,1,1-Trichloroethane	Trans-1,3-dichloropropene		
1,1,2-Trichloroethane	Bromoform		
Trichloroethene	4-Methyl-2-pentanone		
Trichlorofluoromethane	2-Hexanone		
Vinyl chloride	Tetrachloroethene		
Benzene	Toluene		
Ethylbenzene	1,1,2,2-Tetrachloroethane		
Toluene	Chlorobenzene		
o-Xylene	Ethyl benzene		
m-Xylene	Styrene		
p-Xylene	o-Xylene		
	m-Xylene		
	p-Xylene		

Laboratory Number

Chain of Custody and Supplemental Information

Only one chain of custody form is required per sample set or point (if all collected at the same time)

1. Collected by

Date Time

Delivered to

Date Time

2. Received by

Date Time

Delivered to

Date Time

3. Received by

Date Time

Delivered to

Date Time

4. Received in Lab by

Date Time

Logged in by

Date Time

Additional Information

1. Approximate volume of sample

2. Nearest town or city

3. Others present at collection

4. Number of other samples collected at same time at this point

5. Field collection procedure, handling and/or preservation of this sample

6. Mode of transportation to lab

7. Sample sealed by

8. Date sample sealed

9. Remarks

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